




















change to	 ECE (A)	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89
	 US Models	Version	ECE - Models with Mechanical transmission				
	 Japanese Models	Model	628 CS i	630 CS	633 CS i	635 CS i	M 6
Technical Data	- Rear Axle	Unit					
33 10 ... General Information							
Track width with car in normal position	- 2 x 68 kg on front seats - 14 kg in luggage compartment - full fuel tank						
	- with rim offset of 22 mm	mm	1474			1456	
	> model 5.82	mm	1452			-	
	- with rim offset of 15 mm	mm	1470				
Height (lower edge of wheel house to rim flange at center of wheel) with car in normal position		mm	548 ± 8			-	
	> model ' 80	mm	552 ± 10				
	- with TRX tires	mm	566 ± 10			556 ± 10	
Max. difference in deviation from nominal value among all wheels		mm	10				
33 10 ... Final Drive			Short Neck				
Type			see Service Information				
oil grade		mm					
Oil volume	- for oil change	l	1,5			1,9	
	> model 5.82	l	1,7			-	
	> model 11.83	l	-			1,9	
	- for initial filling	l	1,6			1,9	
	> model 5.82	l	1,7			-	
	> model 11.83	l	-			1,9	
		l	-			-	
33 12 ... Drive Pinion and Ring Gear			Klingelberg or Gleason				
Type of teeth							
Code	- Klingelberg		K 30		K 34		-
	- Gleason		H 30		H 34		H 32
	- Gleason > model 11.83		-		H 56		-
	- Gleason with catalytic converter		-		H 60		-
Ratio	- Klingelberg	i	3,45 : 1		3,25 : 1		-
	- Gleason	i	3,46 : 1		3,25 : 1		3,07 : 1
	- Gleason with catalytic converter	i	-		3,45 : 1		-
Backlash		mm	0,06 ... 0,11				
	> model 5.82	mm	0,07 ... 0,14				
Ring gear installing temp		°C	80 ... 100				
Max. radial runout of drive flange		mm	0,07				
Shaft seal friction torque		Ncm	20				
33 13 ... Differential							
Play between diaphragm spring/shim and differential side gear		m	0,03 ... 0,1				


change to	 ECE (A)  US Models  Japanese Models	Year	79 - 87				75 - 79		75 - 81		77 - 89		83 - 89	
		Version	ECE - Models with Mechanical transmission											
		Model	628 CS i			630 CS			633 CS i			635 CS i		
Technical Data - Rear Axle		Unit												
33 14 ... Final drive with Limited Slip Differential														
Sperrwert (mit Vorspannung)		%	25											
Slip torque with one each differential side gear held tight and driven		Nm	50 ... 75											
Optional outer plate thickness		mm	1,9 / 2,0 / 2,1											
Inner plate thickness		mm	2											
33 21 ... Output Shaft														
Design			with constant velocity joints											
Amount of grease per joint (grease included in "dust cover" repair kit)		g	120											
Adhesive for dust covers			Bostik 475											
Sealant for end cover and cap			Curil K											
33 41 ... Wheel bearings														
Axial wheel bearing play		mm	0,05 ... 0,1											
> model 5.82		mm	0,06 ... 0,08											
Grease type			see BMW Service Informations											
33 52 ... Shock Absorbers														
(Only install shock absorbers of same make and same type on one axle)														
Code no.			1 117 669			1 122 004			2 225 150					
> model 5.82			1 126 561			1 125 802			-					
Sport suspension > model 5.82			-			1 126 645			-					
Shock absorbers test values			see BMW Service Informations											
33 53 ... Coil spring														
(Only install coil springs of same make and same type on one axle)														
> model ' 80														
BMW no. (located on end spring)														
- Standard- / Sport- / Air conditioner Version			1 124 006						2 225 176					
> model 5.82			1 125 326						-					
- HD- Version			1 110 416						-					
> model 5.82			1 125 735						-					
Colour code according to spring force			1 x red or without											
Upper spring retainer - for springs with red colour code			1 117 671						-					
> model 5.82			1 124 591						-					
- for springs without colour code			1 117 504						-					
> model 5.82			1 124 507						-					


change to	 ECE	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89
	 US Models	Version	ECE - Models with Automatic transmission				
	 Japanese Models	Model	628 CS i A	630 CS A	633 CS i A	633 CS i A 	635 CS i A
Technical Data	- Rear Axle	Unit					
33 10 ... General Information							
Track width with car in normal position	- 2 x 68 kg on front seats - 14 kg in luggage compartment - full fuel tank						
	- with rim offset of 22 mm	mm	1474				
	> model 5.82	mm	1452				
	- with rim offset of 15 mm	mm	1470				
Height (lower edge of wheel house to rim flange at center of wheel) with car in normal position		mm	548 ± 8				
	> model ' 80	mm	552 ± 10				
	- with TRX tires	mm	566 ± 10				
Max. difference in deviation from nominal value among all wheels		mm	10				
33 10 ... Final Drive							
Type			Short Neck				
oil grade		mm	see BMW - Service Information				
Oil volume	- for oil change	l	1,5				
	> model 5.82	l	1,7				
	> model 11.83	l	-				1,9
	- for initial filling	l	1,6				
	> model 5.82	l	1,7				
	> model 11.83	l	-				1,9
33 12 ... Drive Pinion and Ring Gear							
Type of teeth			Klingelberg or Gleason				
Code	- Klingelberg		K 30		K 34		-
	- Gleason		H 30		H 34		H 32
	- Gleason > model 11.83		-		-		H 56
	- Gleason with catalytic converter		-		-		H 64
Ratio	- Klingelberg	i	3,45 : 1		3,25 : 1		-
	- Gleason	i	3,46 : 1		3,25 : 1		3,07 . 1
	- Gleason with catalytic converter	i	-		-		3,25 : 1
Backlash		mm	0,06 ... 0,11				
	> model 5.82	mm	0,07 ... 0,14				
Ring gear installing temp		°C	80 ... 100				
Max. radial runout of drive flange		mm	0,07				
Shaft seal friction torque		Ncm	20				

change to	 ECE  US Models  Japanese Models	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89
		Version	ECE - Models with Automatic transmission				
		Model	628 CS i A	630 CS A	633 CS i A	633 CS i A 	635 CS i A
33 13 ... Differential Play between diaphragm spring/ shim and differential side gear		m	0,03 ... 0,1				
33 14 ... Final drive with Limited Slip Differential Sperrwert (mit Vorspannung)		%	25				
Slip torque with one each differential side gear held tight and driven		Nm	50 ... 75				
Optional outer plate thickness		mm	1,9 / 2,0 / 2,1				
Inner plate thickness		mm	2				
33 21 ... Output Shaft Design			with constant velocity joints				
Amount of grease per joint (grease included in "dust cover" repair kit)		g	120				
Adhesive for dust covers			Bostik 475				
Sealant for end cover and cap			Curil K				
33 41 ... Wheel bearings Axial wheel bearing play		mm	0,05 ... 0,1				
> model 5.82		mm	0,06 ... 0,08				
Grease type			see BMW - Service Information				
33 52 ... Shock Absorbers (Only install shock absorbers of same make and same type on one axle) Code no.			1 117 669				1 122 004
> model 5.82			1 126 561				1 125 802
Sport suspension > model 5.82			-				1 126 645
Shock absorbers test values			see BMW - Service Information				
33 53 ... Coil spring (Only install coil springs of same make and same type on one axle) > model ' 80 BMW no. (located on end spring)			1 124 006				
- Standard- / Sport- / Air conditioner Version > model 5.82			1 125 326				
- HD- Version > model 5.82			1 110 416				
			1 125 735				
Colour code according to spring force			1 x red or without				
Upper spring retainer - for springs with red colour code > model 5.82			1 117 671				
- for springs without colour code > model 5.82			1 124 591				
			1 117 504				
			1 124 507				

change to	 ECE  ECE (A)  Japanese Models	Year	76 - 77	77 - 84	77 - 84	84 - 89	84 - 89	86 - 88	
		Version	US Models						
		Model	630 CS i	633 CS i	633 CS i A	635 CS i	635 CS i A	M 6	
Technical Data		- Rear Axle	Unit						
33 10 ... General Information									
Track width with car in normal position	- 2 x 68 kg on front seats - 14 kg in luggage compartment - full fuel tank								
	- with rim offset of 22 mm	mm	1474				1456		
	> model 5.82	mm	1452				-		
	- with rim offset of 15 mm	mm	1470						
Height (lower edge of wheel house to rim flange at center of wheel) with car in normal position		mm	548 ± 8				547 ± 8		
	> model ' 80	mm	552 ± 10						
	- with TRX tires	mm	566 ± 10				556 ± 10		
Max. difference in deviation from nominal value among all wheels		mm	10						
33 10 ... Final Drive									
Type			Short Neck						
oil grade		mm	see BMW - Service Information						
Oil volume	- for oil change	l	1,5				1,9		
	> model 5.82	l	1,7				-		
	> model 11.83	l	-		1,9		-		
	- for initial filling	l	1,6				1,9		
	> model 5.82	l	1,7				-		
	> model 11.83	l	-		1,9		-		
33 12 ... Drive Pinion and Ring Gear									
Type of teeth			Klingelberg or Gleason						
Code	- Klingelberg		K 30		K 34		-		
	- Gleason		H 30		H 34		H 32 H 55		
	- Gleason > model 11.83		-				H 56 -		
	- Gleason with catalytic converter		-				H 60 -		
Ratio	- Klingelberg	i	3,45 : 1		3,25 : 1		-		
	- Gleason	i	3,46 : 1		3,25 : 1		3,07 . 1 3,73 : 1		
	- Gleason with catalytic converter	i	-				3,45 : 1 -		
Backlash		mm	0,06 ... 0,11						
	> model 5.82	mm	0,07 ... 0,14						
Ring gear installing temp		°C	80 ... 100						
Max. radial runout of drive flange		mm	0,07						
Shaft seal friction torque		Ncm	20						
33 13 ... Differential									
Play between diaphragm spring/shim and differential side gear		m	0,03 ... 0,1						

change to	 ECE ECE (A)  Japanese Models	Year	76 - 77	77 - 84	77 - 84	84 - 89	84 - 89	86 - 88
		Version	US Models					
		Model	630 CS i	633 CS i	633 CS i A	635 CS i	635 CS i A	M 6
Technical Data - Rear Axle		Unit						
33 14 ... Final drive with Limited Slip Differential								
Sperrwert (mit Vorspannung)		%	25					
Slip torque with one each differential side gear held tight and driven		Nm	50 ... 75					
Optional outer plate thickness		mm	1,9 / 2,0 / 2,1					
Inner plate thickness		mm	2					
33 21 ... Output Shaft								
Design			with constant velocity joints					
Amount of grease per joint (grease included in "dust cover" repair kit)		g	120					
Adhesive for dust covers			Bostik 475					
Sealant for end cover and cap			Curil K					
33 41 ... Wheel bearings								
Axial wheel bearing play		mm	0,05 ... 0,1					
> model 5.82		mm	0,06 ... 0,08					
Grease type			see BMW - Service Information					
33 52 ... Shock Absorbers								
(Only install shock absorbers of same make and same type on one axle)								
Code no.			1 117 669		1 122 004		2 225 150	
> model 5.82			1 126 561		1 125 802		-	
			-		1 126 645		-	
Sport suspension > model 5.82			1 126 645			-		
Shock absorbers test values			see BMW - Service Information					
33 53 ... Coil spring								
(Only install coil springs of same make and same type on one axle)								
> model ' 80								
BMW no. (located on end spring)								
- Standard- / Sport- / Air conditioner Version			1 124 006				2 225 176	
> model 5.82			1 125 326				-	
- HD- Version			1 110 416				-	
> model 5.82			1 125 735				-	
Colour code according to spring force			1 x red or without					
Upper spring retainer - for springs with red colour code			1 117 671				-	
> model 5.82			1 124 591				-	
- for springs without colour code			1 117 504				-	
> model 5.82			1 124 507				-	

change to	 ECE	Year	78 - 84	78 - 84	84 - 88	84 - 88	86 - 88	
		ECE (A)	Version	Japanese Models				
		US Models	Model	633 CS i	633 CS i A	635 CS i	635 CS i A	M 6
Technical Data	- Rear Axle	Unit						
33 10 ... General Information								
Track width with car in normal position	- 2 x 68 kg on front seats - 14 kg in luggage compartment - full fuel tank							
	- with rim offset of 22 mm	mm	1474			1456		
	> model 5.82	mm	1452			-		
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Height (lower edge of wheel house to rim flange at center of wheel) with car in normal position		mm	548 ± 8			-		
	> model ' 80	mm	552 ± 10			-		
	- with TRX tires	mm	566 ± 10			556 ± 10		
Max. difference in deviation from nominal value among all wheels		mm	10					
33 10 ... Final Drive			Short Neck					
Type			see BMW - Service Information					
oil grade		mm						
Oil volume	- for oil change	l	1,5			1,9		
	> model 5.82	l	1,7			-		
	> model 11.83	l	-	1,9		-		
	- for initial filling	l	1,6			1,9		
	> model 5.82	l	1,7			-		
	> model 11.83	l	-	1,9		-		
33 12 ... Drive Pinion and Ring Gear			Klingelberg or Gleason					
Type of teeth								
Code	- Klingelberg		K 34		-			
	- Gleason		H 34		H 32		H 55	
	- Gleason > model 11.83		-		H 56		-	
	- Gleason with catalytic converter		-		H 60	H 64	-	
Ratio	- Klingelberg	i	3,25 : 1		-			
	- Gleason	i	3,25 : 1		3,07 . 1		3,73 : 1	
	- Gleason with catalytic converter	i	-		3,45 : 1	3,25	-	
Backlash		mm	0,06 ... 0,11					
	> model 5.82	mm	0,07 ... 0,14					
Ring gear installing temp		°C	80 ... 100					
Max. radial runout of drive flange		mm	0,07					
Shaft seal friction torque		Ncm	20					
33 13 ... Differential								
Play between diaphragm spring/shim and differential side gear		m	0,03 ... 0,1					

change to	 ECE	Year	78 - 84	78 - 84	84 - 88	84 - 88	86 - 88	
		ECE (A)	Version	Japanese Models				
		US Models	Model	633 CS i	633 CS i A	635 CS i	635 CS i A	M 6
Technical Data - Rear Axle		Unit						
33 14 ... Final drive with Limited Slip Differential								
Sperrwert (mit Vorspannung)		%	25					
Slip torque with one each differential side gear held tight and driven		Nm	50 ... 75					
Optional outer plate thickness		mm	1,9 / 2,0 / 2,1					
Inner plate thickness		mm	2					
33 21 ... Output Shaft								
Design			with constant velocity joints					
Amount of grease per joint (grease included in "dust cover" repair kit)		g	120					
Adhesive for dust covers			Bostik 475					
Sealant for end cover and cap			Curil K					
33 41 ... Wheel bearings								
Axial wheel bearing play		mm	0,05 ... 0,1					
> model 5.82		mm	0,06 ... 0,08					
Grease type			see BMW - Service Information					
33 52 ... Shock Absorbers								
(Only install shock absorbers of same make and same type on one axle)								
Code no.			1 117 669	1 122 004	2 225 150			
> model 5.82			1 126 561	1 125 802	-			
			-	1 126 645	-			
Sport suspension > model 5.82			1 126 645	-				
Shock absorbers test values			see BMW - Service Information					
33 53 ... Coil spring								
(Only install coil springs of same make and same type on one axle)								
> model ' 80								
BMW no. (located on end spring)								
- Standard- / Sport- / Air conditioner Version			1 124 006	2 225 176				
> model 5.82			1 125 326	-				
- HD- Version			1 110 416	-				
> model 5.82			1 125 735	-				
Colour code according to spring force			1 x red or without					
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> model 5.82			1 124 591	-				
- for springs without colour code			1 117 504	-				
> model 5.82			1 124 507	-				



Service-Information BMW Automobile



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All Service Informations are saved in german language, please find them in the german manual.